



Single Core PVC insulated armoured & unarmoured cable with Aluminium / Copper Conductor conf. To IS:1554(P-1)/1988

Area	Cond. Min No. of Wires		Thickness of PVC Insulation (Nom.)		Thick. Of Inner Sheath	Dimension of Armour	Thickness of PVC Outersheath		Approx. Overall diameter		Approx. Net Wt. of Cable				Max.D.C. resistance at 20 Deg.C	Approx. A.C. resistance at operating Temp. 90 Deg.C.		Approx reactance at 50 Hz		Approx. Capacitance per Phase		Current Rating						Short circuit rating for 1 Sec.		Normal Delivery length		
			Arm	Un-Arm			Arm	Un-Arm	Arm	Un-Arm	Armoured		Unarmoured					Arm.	Un-Arm.	Arm.	Un-Arm.	Direct in Ground		In duct		in Air						
	Sq.mm	No	mm		mm	mm	mm		mm		Kg/Km				Ohm/Km		Ohm/Km		Ohm/Km		µf/Km		Amps		Amps		Amps		KA (rms)		Mtr	
Al/Cu	Al	Cu	Al/Cu	Al/Cu	Al/Cu	Al	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	
4	1.0	1.0	1.3	1.0	NA	1.4	1.24	1.8	10.7	8.3	139	165	82	103	7.41	4.61	8.9	5.52	0.139	-	0.57	31	39	30	38	27	35	0.304	0.46	1000	1000	
6	1.0	1.0	1.3	1.0	NA	1.4	1.24	1.8	11.6	9.2	168	205	102	139	4.61	3.08	5.54	3.68	-	0.130	-	0.67	39	49	37	48	35	44	0.456	0.69	1000	1000
10	1.0	7.0	1.3	1.0	NA	1.4	1.24	1.8	12.5	10.1	198	260	124	186	3.08	1.83	3.52	2.19	0.137	0.120	0.67	0.83	51	65	51	64	47	60	0.760	1.15	1000	1000
16	7.0	7.0	1.3	1.0	NA	1.4	1.24	1.8	13.2	10.8	225	322	149	246	1.91	1.15	2.30	1.38	0.128	0.108	0.8	0.97	66	85	65	83	64	82	1.220	1.84	1000	1000
25	7.0	7.0	1.5	1.2	NA	1.4	1.24	1.8	14.8	12.4	292	443	200	351	1.70	0.727	1.44	0.87	0.122	0.103	0.83	1.0	86	110	84	110	84	110	1.900	2.88	1000	1000
35	7.0	7.0	1.5	1.2	NA	1.4	1.24	1.8	15.8	13.4	340	556	239	455	0.868	0.524	1.04	0.627	0.116	0.100	0.95	1.15	100	130	100	125	105	130	2.66	4.03	1000	1000
50	7.0	7.0	1.7	1.4	NA	1.4	1.24	1.8	17.6	15.2	421	706	305	590	0.641	0.387	0.77	0.463	0.11	0.097	0.95	1.26	120	155	115	150	130	165	3.8	5.75	1000	1000
70	19	19	1.7	1.4	NA	1.4	1.4	1.8	19.6	16.8	529	959	385	815	0.443	0.268	0.532	0.321	0.107	0.091	1.12	1.32	140	190	135	175	155	205	5.32	8.05	1000	1000
95	19	19	1.9	1.6	NA	4X1.0	1.4	1.8	20.9	18.9	637	1277	497	1077	0.32	0.193	0.385	0.231	0.103	0.089	1.17	1.36	175	220	155	200	190	245	7.22	10.9	500	500
120	19	19	1.9	1.6	NA	4X1.0	1.4	2.0	22.4	20.8	818	1467	606	1335	0.253	0.153	0.305	0.184	0.099	0.087	1.28	1.49	195	250	170	220	220	280	9.12	13.8	500	500
150	19	19	2.1	1.8	NA	4X1.0	1.4	2.0	24.3	21.7	877	1799	724	1646	0.206	0.124	0.249	0.149	0.096	0.086	1.32	1.52	220	280	190	245	250	320	11.4	17.3	500	500
185	37	37	2.3	2.0	NA	4X1.0	1.4	2.0	26.4	24.8	1038	2166	876	2004	0.164	0.0991	0.199	0.120	0.095	0.085	1.3	1.47	240	305	210	260	290	370	14.1	21.3	500	500
240	37	37	2.5	2.2	NA	4X1.0	1.4	2.0	29.1	27.4	1292	2713	1093	2514	0.125	0.0754	0.152	0.0912	0.093	0.083	1.37	1.54	270	345	225	285	335	425	18.2	27.6	500	500
300	37	37	2.7	2.4	NA	4X1.0	1.56	2.0	32.1	30.0	1560	3381	1322	3143	0.100	0.0601	0.123	0.0739	0.092	0.083	1.4	1.60	295	375	245	310	380	475	22.8	34.5	500	500
400	61	61	3	2.6	NA	4X1.0	1.56	2.2	36	34.2	1935	4388	1686	4139	0.0778	0.0470	0.0975	0.0592	0.089	0.082	1.5	1.70	325	400	275	335	435	550	30.4	46.0	500	500
500	61	61	3.4	3.0	NA	4X1.0	1.56	2.2	39.6	37.8	2390	5444	2109	5163	0.0665	0.0366	0.0767	0.0468	0.089	0.081	1.46	1.63	345	425	295	355	480	590	38.0	57.7	500	500
630	61	61	3.9	3.4	NA	4X1.0	1.72	2.4	44.7	42.7	3052	6857	2696	6501	0.0469	0.0233	0.0614	0.0379	0.088	0.081	1.45	1.64	390	470	320	375	550	660	47.9	72.5	500	500
800	91	91	3.9	3.4	NA	4X1.0	1.88	2.4	49.4	47.1	3699	8352	3287	7940	0.0367	0.0221	0.0510	0.0314	0.086	0.079	1.65	1.87	440	530	345	405	600	725	60.8	92.0	500	500
1000	91	91	3.9	3.4	NA	4X1.0	2.04	2.6	53.7	51.5	4466	10521	4010	10065	0.0291	0.0176	0.0420	0.0271	0.085	0.077	1.76	2.05	490	590	370	435	720	870	76.0	115.0	300	300

- The above data is indicative & may be changed without prior information
- Upto 10 sq.mm. Non-compacted Conductor
- Above 16 Sq.mm. Compacted Conductor

Area	Cond. Min. No. of Wires		Thickness of PVC Insulation (Nom.)	Thick. Of Inner Sheath	Dimension of Armour	Thickness of PVC Outsersheath		Approx. Overall diameter		Approx. Net Wt. of Cable				Max. D.C. resistance at 20 deg. C		Approx. A.C. resistance at operating temp.90 deg. C		Approx. reactance at 50 Hz		Approx. capacitance per phase		Current Rating						Short Circuit rating for 1 sec.		Normal Delivery Length	
						Arm.	Un-Arm.	Arm.	Un-Arm.	Armoured		Unarmoured																			
						mm	mm	mm	mm	mm	mm	mm	mm									Kg/ Km	Kg/ Km	Kg/ Km	Kg/ Km	Ohm/ Km	Ohm/ Km				
Sq. mm	No		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Al	Cu	Al	Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu
Al/Cu	Al	Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu
2.5	1.0	1.0	0.9	0.3	1.4	1.24	1.8	14.8	13.0	436	477	199	230	12.1	7.41	14.5	8.87	0.229	0.204	0.13	0.13	25	32	21	27	21	27	0.19	0.288	1000	1000
4	1.0	1.0	1.0	0.3	1.4	1.24	1.8	16.1	14.3	502	554	242	294	7.41	4.61	8.9	5.52	0.223	0.198	0.14	0.14	32	41	27	35	27	35	0.304	0.46	1000	1000
6	1.0	1.0	1.0	0.3	1.4	1.24	1.8	18.1	16.3	633	707	316	390	4.61	3.08	5.54	3.69	0.197	0.185	0.16	0.16	40	50	34	44	35	45	0.456	0.69	1000	1000
10	1.0	7.0	1.0	0.3	1.4	1.24	1.8	19.5	17.7	734	858	384	508	3.08	1.83	3.70	2.19	0.198	0.176	0.18	0.18	55	70	45	58	47	60	0.760	1.15	1000	1000
16	7.0	7.0	1.0	0.3	4X0.8	1.4	1.8	17.5	16.4	533	729	325	521	1.91	1.15	1.40	1.38	0.179	0.16	0.19	0.19	70	90	58	75	59	78	1.22	1.84	500	500
25	7.0	7.0	1.2	0.3	4X0.8	1.4	2.0	20.1	19.4	687	991	453	757	1.20	0.869	1.44	0.87	0.176	0.157	0.22	0.22	90	115	76	97	78	105	1.90	2.88	500	500
35	7.0	7.0	1.2	0.3	4X0.8	1.4	2.0	21.5	20.8	796	1226	538	972	0.869	0.524	1.04	0.627	0.173	0.154	0.24	0.24	110	140	92	120	99	125	2.66	4.03	500	500
50	7.0	7.0	1.4	0.3	4X0.8	1.4	2.0	24.1	23.4	976	1549	676	1249	0.641	0.387	0.77	0.463	0.173	0.154	0.24	0.24	135	165	115	145	125	155	3.80	5.75	500	500
70	19	19	1.4	0.3	4X0.8	1.56	2	26.7	25.6	1207	2072	842	1177	0.443	0.268	0.532	0.321	0.077	0.077	0.26	0.26	160	205	140	180	150	195	5.32	8.05	500	500
95	19	19	1.6	0.4	4X0.8	1.56	2.2	30.1	29.4	1501	2666	1122	2289	0.32	0.193	0.384	0.231	0.077	0.077	0.26	0.26	190	240	170	215	185	230	7.22	10.09	500	500
120	19	19	1.6	0.4	4X0.8	1.56	2.2	32.1	31.4	1743	3209	1309	2775	0.253	0.153	0.304	0.184	0.074	0.074	0.28	0.28	210	275	190	235	210	265	9.12	13.8	500	500
150	19	19	1.8	0.4	4X0.8	1.72	2.4	34.7	34	2053	3906	1577	3430	0.206	0.124	0.248	0.149	0.074	0.074	0.28	0.28	240	310	210	270	240	305	11.4	17.3	500	500
185	37	37	2.0	0.5	4X0.8	1.88	2.4	38	37	2461	4744	1914	4197	0.164	0.0991	0.198	0.120	0.074	0.074	0.28	0.28	275	350	240	300	275	350	14.1	21.3	500	500
240	37	37	2.2	0.5	4X0.8	2.04	2.6	43	42	3034	5891	2425	5282	0.125	0.0754	0.152	0.0912	0.074	0.074	0.28	0.28	320	405	275	345	325	410	18.2	27.6	500	500
300	37	37	2.4	0.6	4X0.8	2.2	2.8	46.5	45.6	3636	7297	2964	6625	0.100	0.0601	0.122	0.0739	0.073	0.073	0.29	0.29	355	430	305	385	365	465	22.8	34.5	500	500
400	61	61	2.6	0.7	4X0.8	2.36	3.2	52.3	51.8	4495	9461	3782	8748	0.0778	0.0470	0.096	0.0592	0.073	0.073	0.29	0.29	385	490	345	425	420	530	30.4	46.0	300	300
500	61	61	3.0	0.7	4X0.8	2.84	3.4	58.7	57.6	5419	9558	4732	8871	0.0605	0.0366	0.076	0.0468	0.073	0.073	0.29	0.29	415	520	365	460	455	575	38.0	57.5	300	300
630	61	61	3.4	0.7	4X0.8	2.84	3.8	64.8	64.4	6875	12247	6012	11384	0.0469	0.0283	0.061	0.0379	0.073	0.073	0.29	0.29	460	565	405	510	520	655	47.9	72.5	300	300

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- Upto 10 sq.mm. Non-compacted Conductor
- Above 16 Sq.mm. Compacted Conductor

Area	Cond. Min. No. of Wires		Thickness of PVC Insulation (Nom.)	Thick. Of Inner Sheath	Dimension of Armour	Thickness of PVC Outsheath		Approx. Overall diameter		Approx. Net Wt. of Cable				Max. D.C. resistance at 20 deg. C		Approx. A.C. resistance at operating temp.90 deg. C		Approx. reactance at 50 Hz		Approx. capacitance per phase		Current Rating						Short Circuit rating for 1 Sec.		Normal Delivery Length	
						Arm.	Un-Arm.	Arm.	Un-Arm.	Armoured		Unarmoured						Arm.	Un-Arm.	Arm.	Un-Arm.	Direct in Ground		In duct		in Air					
	Sq.mm	No	mm	mm	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	Ohm/ Km	Ohm/ Km	Ohm/ Km	Ohm/ Km	Ohm/ Km	Ohm/ Km	μf/Km	μf/Km	Amps	Amps	Amps	Amps	Amps	Amps	KA (rms)	KA (rms)	Mtr
Al/Cu	Al	Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu
2.5	1.0	1.0	0.9	0.3	1.4	1.24	1.8	15.5	13.7	469	521	220	272	12.1	7.41	14.5	8.87	0.115	0.115	0.355	0.355	21	27	18	24	18	24	0.19	0.288	1000	1000
4	1.0	1.0	1.0	0.3	1.4	1.24	1.8	16.8	15.0	555	663	272	380	7.41	4.61	8.9	5.52	0.147	0.147	0.099	0.099	28	36	23	30	23	30	0.304	0.460	1000	1000
6	1.0	1.0	1.0	0.3	1.4	1.24	1.8	19	17.2	694	806	354	466	4.61	3.08	5.54	3.66	0.104	0.104	0.093	0.093	35	45	30	38	30	38	0.456	0.69	1000	1000
10	1.0	7.0	1.0	0.3	1.4	1.24	1.8	21.0	18.9	827	1014	435	622	3.08	1.83	3.70	2.19	0.099	0.088	0.495	0.495	46	60	39	50	40	52	0.760	1.15	1000	1000
16	7.0	7.0	1.0	0.3	4X0.8	1.4	1.8	20.2	19.1	679	972	432	725	1.91	1.15	2.30	1.38	0.090	0.08	0.56	0.56	60	77	50	64	51	66	1.220	1.84	500	500
25	7.0	7.0	1.2	0.3	4X0.8	1.4	2.0	22.5	21.5	868	1324	597	1053	1.20	0.727	1.44	0.87	0.088	0.079	0.62	0.62	76	99	63	81	70	90	1.90	2.88	500	500
35	7.0	7.0	1.2	0.3	4X0.8	1.4	2.0	24.2	23.5	1009	1661	719	1374	0.868	0.524	1.04	0.627	0.086	0.077	0.66	0.66	92	120	77	99	86	110	2.66	4.03	500	500
50	7.0	7.0	1.4	0.3	4X0.8	1.56	2.0	27.6	26.5	1292	2151	941	1773	0.641	0.387	0.77	0.463	0.086	0.077	0.7	0.7	110	145	95	125	105	135	3.80	5.75	500	500
70	19	19	1.4	0.4	4X0.8	1.56	2.2	30.9	30.0	1593	2889	1200	2496	0.443	0.268	0.532	0.321	0.083	0.074	0.73	0.73	135	175	115	150	130	165	5.32	8.05	500	500
95	19	19	1.6	0.4	4X0.8	1.56	2.2	34.1	33.2	1970	3723	1542	3291	0.320	0.193	0.385	0.231	0.083	0.074	0.76	0.76	165	210	140	175	155	200	7.22	10.09	500	500
120	19	19	1.6	0.4	4X0.8	1.72	2.2	37.3	36.2	2352	4275	1821	4019	0.253	0.153	0.305	0.184	0.082	0.072	0.78	0.78	185	240	155	195	180	230	9.12	13.8	500	500
150	19	19	1.8	0.5	4X0.8	1.88	2.4	41.0	40.0	2791	5571	2229	5009	0.206	0.124	0.249	0.149	0.082	0.072	0.795	0.795	210	270	175	225	205	265	11.4	17.3	500	500
185	37	37	2.0	0.5	4X0.8	1.88	2.6	44.9	44.3	3306	6732	2740	6166	0.164	0.0991	0.198	0.120	0.082	0.072	0.81	0.81	235	300	200	255	240	305	14.1	21.3	500	500
240	37	37	2.2	0.6	4X0.8	2.20	2.8	50.7	49.8	4193	8477	3496	7780	0.125	0.0754	0.152	0.0912	0.079	0.071	0.82	0.82	275	345	235	295	280	355	18.2	27.6	500	500
300	37	37	2.4	0.6	4X0.8	2.36	3.0	56.0	55.1	5025	10516	4268	9759	0.100	0.0601	0.123	0.0739	0.079	0.071	0.825	0.825	305	385	260	335	315	400	22.8	34.5	500	300
400	61	61	2.6	0.7	4X0.8	2.52	3.4	62.7	62.0	6255	13652	5429	12826	0.0778	0.0470	0.0975	0.0592	0.079	0.071	0.83	0.83	335	425	290	360	375	455	30.4	46.0	500	250
500	61	61	3.0	0.7	4X0.8	2.84	3.6	70.1	69.3	7774	17048	6827	16101	0.0605	0.0366	0.0767	0.0468	0.079	0.071	1.1	1.1	355	440	315	390	405	500	38.0	57.50	500	250

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- Upto 10 sq.mm. Non-compacted Conductor
- Above 16 Sq.mm. Compacted Conductor

Area	Cond. Min. No. of Wires		Thickness of PVC Insulation (Nom.)	Thick. Of Inner Sheath	Dimension of Armour Strip	Thickness of PVC Outersheath		Approx. Overall diameter		Approx. Net Wt. of Cable				Max. D.C. resistance at 20 deg. C		Approx. A.C. resistance at operating temp.90 deg. C		Approx. reactance at 50 Hz		Approx. capacitance per phase		Current Rating						Short Circuiting for 1 Sec.		Normal Delivery Length	
						Arm.	Un-Arm.	Arm.	Un-Arm.	Armoured		Unarmoured						Arm.	Un-Arm.	Arm.	Un-Arm.	Direct in Ground		In duct		in Air					
	Sq.mm	No		mm	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	Ohm/ Km	Ohm/ Km	Ohm/ Km	Ohm/ Km	Ohm/ Km	Ohm/ Km	µf/Km	µf/Km	Amps	Amps	Amps	Amps	Amps	Amps	KA (rms)	KA (rms)	Mtr
Al/Cu	Al	Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu
25	7	7	1.2/1.0	0.3	4X0.8	1.4	2.0	24	23.4	983	1536	692	1245	1.2	0.727	1.44	0.875	0.87	0.083	0.86	0.86	76	99	63	81	70	90	1.9	2.88	500	500
35	7	7	1.2/1.0	0.3	4X0.8	1.4	2.0	26.1	25.4	1150	1900	818	1568	0.868	0.525	1.73	0.629	0.627	0.082	0.98	0.98	92	120	77	99	86	110	2.66	4.03	500	500
50	7	7	1.4/1.2	0.3	4X0.8	1.56	2.0	29.4	28.3	1451	2463	1051	2063	0.641	0.387	0.77	0.465	0.463	0.082	1	1	110	145	95	125	105	135	3.8	5.75	500	500
70	19	19	1.4/1.2	0.4	4X0.8	1.56	2.2	33	32	1784	3298	1372	2885	0.443	0.268	0.532	0.322	0.321	0.079	1.16	1.16	135	175	115	150	130	165	5.32	8.05	500	500
95	19	19	1.6/1.4	0.4	4X0.8	1.56	2.2	37	36	2273	4313	1785	3817	0.320	0.193	0.385	0.233	0.231	0.079	1.18	1.18	163	210	140	175	155	200	7.22	10.9	500	500
120	19	19	1.6/1.4	0.5	4X0.8	1.72	2.4	40.5	40	2720	5359	2187	4817	0.253	0.153	0.305	0.185	0.184	0.077	1.31	1.31	185	240	155	195	180	230	9.12	13.8	500	500
150	19	19	1.8/1.4	0.5	4X0.8	1.88	2.4	44.3	43.3	3175	6387	2549	5761	0.206	0.124	0.249	0.15	0.149	0.077	1.28	1.28	210	270	175	225	205	265	11.4	17.3	500	500
185	37	37	2.0/1.6	0.5	4X0.8	2.04	2.6	48.9	47.9	3855	7869	3166	7180	0.164	0.0991	0.198	0.121	0.12	0.077	1.3	1.3	235	300	200	255	240	305	14.1	21.3	500	500
240	37	37	2.2/1.6	0.6	4X0.8	2.20	3.0	55	55	4845	9862	4069	9086	0.125	0.0754	0.152	0.094	0.0912	0.075	1.34	1.34	275	345	235	295	280	355	18.20	27.6	500	300
300	37	37	2.4/1.8	0.6	4X0.8	2.36	3.2	60.6	60.1	5743	12160	4952	11369	0.100	0.0601	0.123	0.075	0.0739	0.075	1.37	1.37	305	385	260	335	315	400	22.8	34.5	500	300
400	61	61	2.6/2.0	0.7	4X0.8	2.68	3.4	69.1	68.2	7042	15635	6242	14834	0.0778	0.0470	0.0975	0.061	0.0592	0.075	1.43	1.43	335	425	290	360	375	455	30.4	46.0	500	250
500	61	61	3.0/2.2	0.7	4X0.8	2.84	3.8	76.9	76.4	8920	19633	7968	18681	0.0605	0.0366	0.0767	0.049	0.0468	0.075	1.41	1.41	355	440	315	390	405	500	38.0	57.50	500	250

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- Above 16 Sq.mm. Compacted Conductor

Area	Cond. Min. No. of Wires		Thick. of PVC Insulation (Nom.)	Thick. Of Inner Sheath	Dimension of Armour	Thickness of PVC Outersheath		Approx. Overall diameter		Approx. Net Wt. of Cable				Max. D.C. resistance at 20 deg. C		Approx. A.C. resistance at operating temp.90 deg. C		Approx. reactance at 50 Hz		Approx. capacitance per phase		Current Rating						Short Circuit rating for 1 Sec.		Normal Delivery Length												
																																Wire Strip	Arm.	Un-Arm.	Arm.	Un-Arm.	Armoured		Unarmoured		Arm.	Un-Arm.
																						mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km										Ohm/Km	Ohm/Km	Ohm/Km	Ohm/Km		
Sq.mm	Al	Cu	mm	mm	mm	mm	mm	mm	mm	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu									
2.5	1	1	0.9	0.3	1.4	1.24	1.8	16.5	14.7	552	614	253	335	12.1	7.41	14.5	8.87	0.123	0.08	0.355	0.355	21	27	18	24	18	24	0.19	0.288	1000	1000											
4	1	1	1.0	0.3	1.4	1.24	1.8	17.6	15.7	638	735	320	417	7.41	4.61	8.9	5.52	0.149	0.105	0.395	0.395	28	36	23	30	23	30	0.3	0.46	1000	1000											
6	1	1	1.0	0.3	1.4	1.24	1.8	18	17.1	792	941	419	568	4.61	3.08	5.54	3.99	0.112	0.099	0.435	0.435	35	45	30	38	30	39	0.46	0.69	1000	1000											
10	1	7	1.0	0.3	4X0.8	1.4	1.8	21.7	20.5	824	1058	517	767	3.08	1.83	3.79	2.19	0.107	0.094	0.495	0.495	46	60	39	50	40	52	0.76	1.15	1000	1000											
16	7	7	1.0	0.3	4X0.8	1.4	2.0	22.1	21.4	822	1214	555	947	1.91	1.19	2.30	1.38	0.097	0.086	0.56	0.56	60	77	50	64	51	66	1.22	1.84	1000	1000											
25	7	7	1.2	0.3	4X0.8	1.4	2.0	25.3	25	1060	1668	748	1356	1.25	0.727	1.44	0.87	0.097	0.085	0.62	0.62	76	99	63	81	70	90	1.90	2.88	500	500											
35	7	7	1.2	0.3	4X0.8	1.4	2.0	27.6	26.9	1261	2129	907	1775	0.868	0.524	1.04	0.627	0.094	0.083	0.66	0.66	92	120	77	99	86	110	2.66	4.03	500	500											
50	7	7	1.4	0.4	4X0.8	1.56	2.2	33.0	31	1593	2740	1214	2362	0.641	0.387	0.77	0.463	0.093	0.082	0.7	0.7	110	145	95	125	105	135	3.80	5.75	500	500											
70	19	19	1.4	0.4	4X0.8	1.56	2.2	35.1	34.4	1910	3711	1580	3259	0.443	0.268	0.532	0.321	0.0769	0.0769	1.16	1.16	135	175	115	150	130	165	5.32	8.05	500	500											
95	19	19	1.6	0.4	4X0.8	1.72	2.4	39.4	38.7	2527	4357	2012	4344	0.32	0.193	0.384	0.231	0.0766	0.0766	1.18	1.18	165	210	140	175	155	200	7.22	10.9	500	500											
120	19	19	1.6	0.5	4X0.8	1.88	2.4	43.1	42.1	3004	5935	2400	5331	0.253	0.153	0.304	0.184	0.0741	0.0741	1.31	1.31	185	240	155	195	180	230	9.12	13.8	500	500											
150	19	19	1.8	0.5	4X0.8	1.88	2.6	47	46.4	3538	7245	2913	6620	0.206	0.124	0.248	0.149	0.0743	0.0743	1.28	1.28	210	270	175	225	205	265	11.4	17.3	500	500											
185	37	37	2.0	0.6	4X0.8	2.04	2.8	52.1	51.5	4289	8856	3609	8175	0.164	0.0991	0.198	0.120	0.0742	0.0742	1.3	1.3	235	300	200	255	240	305	14.1	21.3	500	500											
240	37	37	2.2	0.6	4X0.8	2.36	3.0	59	58.1	5394	11107	4573	10286	0.125	0.0754	0.152	0.0912	0.0737	0.0737	1.34	1.34	275	345	235	295	280	355	18.2	27.6	500	300											
300	37	37	2.4	0.7	4X0.8	2.52	3.4	65.8	65.7	6553	13927	5755	13129	0.100	0.0601	0.122	0.0739	0.0733	0.0733	1.37	1.37	305	385	260	335	315	400	22.8	34.5	500	300											
400	61	61	2.6	0.7	4X0.8	2.68	3.6	73.3	73.1	8080	18011	7205	17136	0.0778	0.0470	0.096	0.0592	0.0729	0.0729	1.43	1.43	335	425	290	360	375	455	30.4	46.0	500	250											
500	61	61	3.0	0.7	4X0.8	3.0	4.0	83.1	83	10117	22483	9150	21516	0.0605	0.0366	0.076	0.0468	0.0732	0.0732	1.41	1.41	370	440	320	390	540	500	37.9	57.5	500	200											

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- Above 16 Sq.mm. Compacted Conductor

No. of Cores x Area	Cond. Min. No. of Wires	Thickness of PVC Insulation (Nom.)	Thick. Of Inner Sheath	Diameter of Armour		Thickness of PVC Outersheath		Approx. Overall diameter		Approx. Net Wt. of Cable		Max. D.C. resistance at 20 deg. C	Approx. A.C. resistance at operating temp.90 deg. C	Approx. reactance at 50 Hz	Approx. capacitance per phase	Current Rating			Short Circuit rating for 1 sec.	Normal Delivery Length
						Arm.	Un-Arm.	Arm.	Un-Arm.	Arm.	Un-Arm.					Direct In Ground	In Duct	In Air		
No.x Sq mm	No	mm	mm	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Ohm/Km	Ohm/Km	Ohm/Km	µf/Km	Amps	Amps	Amps	KA (rms)	Mtr.
2X1.5	1.0	0.8	0.3	1.4		1.24	1.8	13.6	11.7	411	183	12.1	14.5	0.218	0.1	23	20	20	0.173	1000
3X1.5	1.0	0.8	0.3	1.4		1.24	1.8	14.1	12.3	450	212	12.1	14.5	0.218	0.1	21	17	17	0.173	1000
4X1.5	1.0	0.8	0.3	1.4		1.24	1.8	14.9	13.1	508	247	12.1	14.5	0.218	0.1	21	17	17	0.173	1000
5X1.5	1.0	0.8	0.3	1.4		1.24	1.8	16.1	14.3	542	278	12.1	14.5	0.218	0.1	21	17	17	0.173	1000
6X1.5	1.0	0.8	0.3	1.4		1.24	1.8	17.1	15.3	607	322	12.1	14.5	0.218	0.1	15	13	13	0.173	1000
7X1.5	1.0	0.8	0.3	1.4		1.24	1.8	17.1	15.3	621	332	12.1	14.5	0.218	0.1	14	13	13	0.173	1000
10X1.5	1.0	0.8	0.3	1.4		1.40	1.8	20.8	18.6	838	456	12.1	14.5	0.218	0.1	13	11	11	0.173	500
12X1.5	1.0	0.8	0.3	1.4	4x0.8	1.24	1.8	19.8	19.2	723	501	12.1	14.5	0.218	0.1	12	10	10	0.173	500
14X1.5	1.0	0.8	0.3	1.4	4x0.8	1.40	1.8	21.0	20.0	822	558	12.1	14.5	0.218	0.1	11	10	10	0.173	500
16X1.5	1.0	0.8	0.3	1.4	4x0.8	1.40	1.8	22.0	21.0	912	626	12.1	14.5	0.218	0.1	11	9	9	0.173	500
19X1.5	1.0	0.8	0.3	1.4	4x0.8	1.40	2.0	23.2	22.4	987	724	12.1	14.5	0.218	0.1	10	9	9	0.173	500
24X1.5	1.0	0.8	0.3	1.4	4x0.8	1.40	2.0	26.4	25.8	1225	900	12.1	14.5	0.218	0.1	9	8	8	0.173	500
27X1.5	1.0	0.8	0.3	1.4	4x0.8	1.40	2.0	26.9	26.2	1291	968	12.1	14.5	0.218	0.1	9	8	8	0.173	500
30X1.5	1.0	0.8	0.3	1.4	4x0.8	1.40	2.0	27.8	27.2	1396	1051	12.1	14.5	0.218	0.1	9	7	7	0.173	500
37X1.5	1.0	0.8	0.3	1.4	4x0.8	1.40	2.0	29.7	29.1	1608	1243	12.1	14.5	0.218	0.1	8	7	7	0.173	500
44X1.5	1.0	0.8	0.3	1.4	4x0.8	1.56	2.0	33.4	32.3	1925	1468	12.1	14.5	0.218	0.1	7	6	6	0.173	500
52X1.5	1.0	0.8	0.4	1.4	4x0.8	1.56	2.0	35.0	34.0	2173	1698	12.1	14.5	0.218	0.1	7	6	6	0.173	500
61X1.5	1.0	0.8	0.4	1.4	4x0.8	1.56	2.2	36.9	36.3	2445	1959	12.1	14.5	0.218	0.1	6	6	6	0.173	500
2X2.5	1.0	0.9	0.3	1.4		1.24	1.8	15.0	12.8	477	230	7.41	8.87	0.208	0.1	32	27	27	0.288	1000
3X2.5	1.0	0.9	0.3	1.4		1.24	1.8	15.5	13.7	521	282	7.41	8.87	0.208	0.1	27	24	24	0.288	1000
4X2.5	1.0	0.9	0.3	1.4		1.24	1.8	16.5	14.7	614	335	7.41	8.87	0.208	0.1	27	24	24	0.288	1000
5X2.5	1.0	0.9	0.3	1.4		1.24	1.8	18.0	16.0	674	366	7.41	8.87	0.208	0.1	27	24	24	0.288	1000
6X2.5	1.0	0.9	0.3	1.4		1.24	1.8	19.0	17.0	757	426	7.41	8.87	0.208	0.1	21	18	18	0.288	1000
7X2.5	1.0	0.9	0.3	1.4		1.24	1.8	19.0	17.0	776	451	7.41	8.87	0.208	0.1	20	17	17	0.288	1000
10X2.5	1.0	0.9	0.3	1.4	4x0.8	1.40	1.8	23.8	21.1	908	622	7.41	8.87	0.208	0.1	18	15	15	0.288	500
12X2.5	1.0	0.9	0.3	1.4	4x0.8	1.40	2	22.8	20.3	972	708	7.41	8.87	0.208	0.1	17	14	14	0.288	500
14X2.5	1.0	0.9	0.3	1.4	4x0.8	1.40	2	23.9	23.2	1079	795	7.41	8.87	0.208	0.1	16	13	13	0.288	500
16X2.5	1.0	0.9	0.3	1.4	4x0.8	1.40	2	25.0	24.4	1197	892	7.41	8.87	0.208	0.1	15	12	12	0.288	500
19X2.5	1.0	0.9	0.3	1.4	4x0.8	1.40	2	26.3	25.7	1336	1010	7.41	8.87	0.208	0.1	14	12	12	0.288	500
24X2.5	1.0	0.9	0.3	1.4	4x0.8	1.40	2	30.3	29.7	1651	1264	7.41	8.87	0.208	0.1	13	11	11	0.288	500
27X2.5	1.0	0.9	0.3	1.4	4x0.8	1.40	2	30.9	30.3	1750	1366	7.41	8.87	0.208	0.1	12	10	10	0.288	500
30X2.5	1.0	0.9	0.3	1.4	4x0.8	1.56	2	32.3	31.3	1923	1487	7.41	8.87	0.208	0.1	12	10	10	0.288	500
37X2.5	1.0	0.9	0.4	1.4	4x0.8	1.56	2.2	34.9	34.2	2269	1826	7.41	8.87	0.208	0.1	11	9	9	0.288	500
44X2.5	1.0	0.9	0.4	1.4	4x0.8	1.56	2.2	38.9	38.2	2662	2140	7.41	8.87	0.208	0.1	10	9	9	0.288	500
52X2.5	1.0	0.9	0.4	1.4	4x0.8	1.56	2.2	40.3	39.9	2985	2474	7.41	8.87	0.208	0.1	10	8	8	0.288	500
61X2.5	1.0	0.9	0.4	1.4	4x0.8	1.56	2.2	42.5	41.9	3385	2821	7.41	8.87	0.208	0.1	9	8	8	0.288	500

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**Group Rating Factors for Circuits for Three Single Core Cables in Trefoil and Touching Horizontal Formation laid Direct in Ground**

No. of Circuits	Spacing (Between Centres of Circuits)				
	Touching	15 cm	30 cm	45 cm	60 cm
2	0.78	0.81	0.85	0.88	0.90
3	0.68	0.71	0.77	0.81	0.83
4	0.61	0.65	0.72	0.76	0.79
6	0.53	0.58	0.66	0.71	0.76
8	0.48	0.64	0.62	0.67	0.72

**Rating Factors for Groups of Twin and Multicore Cables laid Direct in Ground in Tier Formation**

No. of Circuits	Spacing (Between Centres of Circuits)				
	Touching	15 cm	30 cm	45 cm	60 cm
4	0.60	0.67	0.73	0.76	0.78
6	0.51	0.57	0.61	0.67	0.69
8	0.45	0.51	0.57	0.59	0.61

**Rating Factors for variation in thermal resistivity of soil (multicore cables laid direct in the ground)**

Nominal area of conductor sq mm	Rating Factor for value of Thermal Resistivity of Soil in C cm/Watt					
	100	120	150	200	250	300
25	1.14	1.08	1.00	0.91	0.84	0.78
35	1.15	1.08	1.00	0.91	0.84	0.77
50	1.15	1.08	1.00	0.91	0.84	0.77
70	1.15	1.08	1.00	0.90	0.83	0.76
95	1.15	1.08	1.00	0.90	0.83	0.76
120	1.17	1.09	1.00	0.90	0.82	0.76
150	1.17	1.09	1.00	0.90	0.82	0.76
185	1.18	1.09	1.00	0.89	0.81	0.75
240	1.18	1.09	1.00	0.89	0.81	0.75
300	1.18	1.09	1.00	0.89	0.81	0.75
400	1.19	1.10	1.00	0.89	0.81	0.75
500	1.21	1.10	1.00	0.89	0.81	0.75
630	1.22	1.10	1.00	0.89	0.81	0.75

**Rating Factors for variation in thermal resistivity of soil, three single core cables laid direct in the ground (three cables in trefoil touching) :**

Nominal area of conductor sq mm	Rating Factor for value of Thermal Resistivity of Soil in C cm/Watt					
	100	120	150	200	250	300
25	1.19	1.09	1.00	0.88	0.80	0.74
35	1.20	1.09	1.00	0.88	0.80	0.74
50	1.20	1.09	1.00	0.88	0.80	0.74
70	1.21	1.10	1.00	0.88	0.80	0.74
95	1.22	1.10	1.00	0.88	0.80	0.74
120	1.22	1.10	1.00	0.88	0.79	0.74
150	1.22	1.10	1.00	0.88	0.79	0.73
185	1.22	1.10	1.00	0.88	0.79	0.73
240	1.22	1.10	1.00	0.88	0.79	0.73
300	1.22	1.10	1.00	0.88	0.79	0.72
400	1.24	1.11	1.00	0.88	0.79	0.72
500	1.24	1.11	1.00	0.88	0.79	0.72
630 to 1000	1.24	1.11	1.00	0.88	0.79	0.72

**Rating Factor for Variation in Dept. of Laying in Ground**

Voltage	Dept. of Laying (cms)	75	90	105	120	150	180 & above
1.1 kv	Rating Factor upto 25 sq. mm	1.00	0.99	0.98	0.97	0.96	0.95
	Rating Factor above 25 sq. mm and upto 300 sq. mm	1.00	0.98	0.97	0.96	0.94	0.93
	Rating Factor above 300 sq. mm	1.00	0.97	0.96	0.95	0.92	0.91